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## NOTICE OF ALLOWANCE AND FEE(S) DUE

53644

7590

02/17/2009

STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C. 1100 NEW YORK AVE., N.W. WASHINGTON, DC 20005

EXAMINER

KELLY, ROBERT M

ART UNIT PAPER NUMBER

1633

DATE MAILED: 02/17/2009

APPLICATION NO	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618.299	07/11/2003	James G. Barsoum	2159.0830001	6907

TITLE OF INVENTION: METHOD OF ENHANCING DELIVERY OF A THERAPEUTIC NUCLEIC ACID

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/18/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further indicated unless correcte maintenance fee notificate	correspondence includin d below or directed oth	ng the Patent, advance onerwise in Block 1, by (	orders and notification of a) specifying a new corre	maintenance fees we espondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
53644 STERNE, KES 1100 NEW YOR WASHINGTON	RK AVE., N.W.	<sup>7/2009</sup> EIN & FOX, P.L.I	L.C. I he Sta adc trai	Cert ereby certify that thi tes Postal Service w dressed to the Mail nsmitted to the USPI	ificate s Fee(s ith suf Stop O (57	of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/618,299	07/11/2003		James G. Barsoum			2159.0830001	6907
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/18/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7			
KELLY, ROBERT M		1633	424-093100	_			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ess an assignee is identi n in 37 CFR 3.11. Comp	" Indication form ned. Use of a Customer A TO BE PRINTED ON ified below, no assignee	(1) the names of up to or agents OR, alternation (2) the name of a sing registered attorney or 2 registered patent attellisted, no name will be THE PATENT (print or ty data will appear on the pT a substitute for filing an	ively, the firm (having as a agent) and the name orneys or agents. If it is printed.  The printed assigned assignment.	memb es of up no nam	er a 2ee is 3eentified below, the de	ocument has been filed for
4a. The following fee(s) a ☐ Issue Fee ☐ Publication Fee (N		4 permitted)	b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Dep	ase first reapply an	y prev	riously paid issue fee	·
a. Applicant claims	tus (from status indicated s SMALL ENTITY statu d Publication Fee (if requecords of the United Sta	ıs. See 37 CFR 1.27.	b. Applicant is no lored from anyone other than	nger claiming SMAL	L ENT	ΓΙΤΥ status. See 37 CI	
Authorized Signature				Date			
Authorized Signature  Typed or printed name							
an application. Confident submitting the completed his form and/or suggesti	ciality is governed by 35 I application form to the ons for reducing this but	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is es y depending upon the indi ne Chief Information Offic	stimated to take 12 n vidual case. Any co ser. U.S. Patent and '	ninutes mment Fraden	to complete, including s on the amount of time park Office, U.S. Depar	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/618,299	07/11/2003	James G. Barsoum	2159.0830001	6907		
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STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C. 1100 NEW YORK AVE., N.W.			KELLY, ROBERT M			
			ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20005			1633			
			DATE MAILED: 02/17/2009			

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/618,299	BARSOUM ET AL.		
Notice of Allowability	Examiner	Art Unit	_	
	ROBERT M. KELLY	1633		
The MAILING DATE of this communication appea.  All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313  1. This communication is responsive to 1/13/09.	(OR REMAINS) CLOSED in or other appropriate communication is supplication is supplication.	n this application. If not included unication will be mailed in due course. <b>THIS</b>	;	
	d			
2. The allowed claim(s) is/are <u>1,34,35,38,39,41,42,44,46,56</u>	<u>and 57</u> .			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	been received. been received in Application	on No		
<ol> <li>Copies of the certified copies of the priority does</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have been received	d in this national stage application from the		
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXA	AMINER'S AMENDMENT or NOTICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	. ,			
(a) ☐ including changes required by the Notice of Draftspers		v ( PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	,		
(b) including changes required by the attached Examiner's Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>				
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No./ 7. ☑ Examiner's —	formal Patent Application ummary (PTO-413), 'Mail Date Amendment/Comment Statement of Reasons for Allowance 		

Applicant's submitted After-Final amendment and argument of 1/13/09 is entered.

Claims 52 and 55 are cancelled.

Claims 1, 34, 35, 38, 39, 41, 42, 44, 56, and 57 remain pending and are herein allowed.

**Statement of Reasons for Allowance:** 

Applicant's amendment, cancelling Claims 52 and 55, moots the remaining rejections and/or objections of record. Hence, no rejections are held against the claims.

In addition, the invention has been shown in the prosecution to be the delivery of viral vectors of the same type as the vector delivering the transgene, to thereby circumvent kupffer cell filtration of the vector, and allowing more vector with the transgene to reach other cells to be expressed. Such is borne out by the prosecution history. In addition all issues of enablement and written description have been addressed on the record. Lastly, no art of record teaches or makes obvious the overloading of kupffer cells by a second vector without the intended transgene. Hence, Claims 1, 34, 35, 38, 39, 41, 42, 44, 56, and 57 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT M. KELLY whose telephone number is (571)272-0729. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1633

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert M Kelly/ Primary Examiner, Art Unit 1633